

6AF4A

Medium-Mu Triode

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC)	6.3 ± 10%	volts
Current at 6.3 volts	0.225	amp

Direct Interelectrode Capacitance
(Approx.):^a

Grid to plate	1.9	μμf
Grid to cathode and heater	2.2	μμf
Plate to cathode and heater	1.4	μμf
Heater to cathode	2.2 ^b	μμf

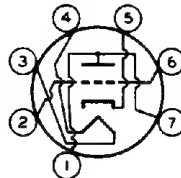
Characteristics, Class A₁ Amplifier:

Plate Supply Voltage	80	volts
Cathode Resistor	150	ohms
Amplification Factor	13.5	
Plate Resistance (Approx.)	2100	ohms
Transconductance	6500	μmhos
Plate Current	17.5	ma

Mechanical:

Operating Position	Any
Maximum Overall Length	1-3/4"
Maximum Seated Length	1-1/2"
Length, Base Seat to Bulb Top (Excluding tip)	1-1/8" ± 3/32"
Diameter	0.650" to 0.750"
Dimensional Outline	See <i>General Section</i>
Bulb	T5-1/2
Base	Small-Button Miniature 7-Pin (JEDEC No. E7-1)
Basing Designation for BOTTOM VIEW	7DK

Pin 1 - Plate
Pin 2 - Grid
Pin 3 - Heater
Pin 4 - Heater



Pin 5 - Cathode
Pin 6 - Grid
Pin 7 - Plate

UHF OSCILLATOR

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE	150 max.	volts
GRID VOLTAGE:		
Negative-bias value	50 max.	volts
GRID CURRENT	2 max.	ma
CATHODE CURRENT	24 max.	ma
PLATE DISSIPATION	2.5 max.	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	50 max.	volts
Heater positive with respect to cathode	50 ^c max.	volts

← Indicates a change.



RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA
5-61

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Typical Operation:

At frequency of 1000 Mc

Plate Supply Voltage.	100	volts
Plate Resistor.	220	ohms
Grid Resistor	10000	ohms
Plate Current	17	ma
Grid Current (Approx.).	750	μ a

Maximum Circuit Values:

Grid-Circuit Resistance:

- For fixed-bias operation. Not recommended
- For cathode-bias operation. 0.5 max. megohm

^a With external shield JEDEC No.316 connected to cathode except as noted.

^b With external shield JEDEC No.316 connected to plate.

^c The dc component must not exceed 25 volts.

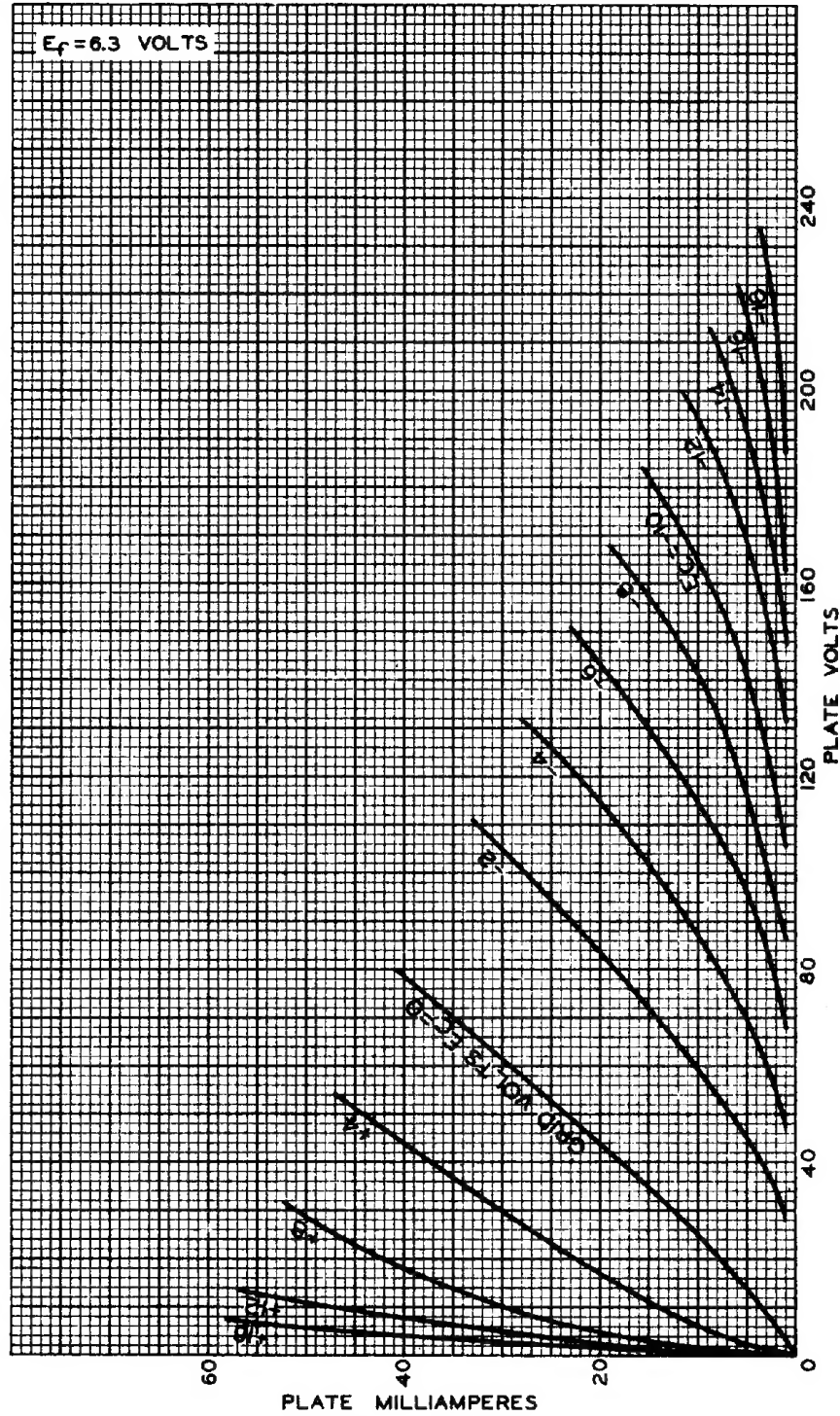




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AVERAGE PLATE CHARACTERISTICS



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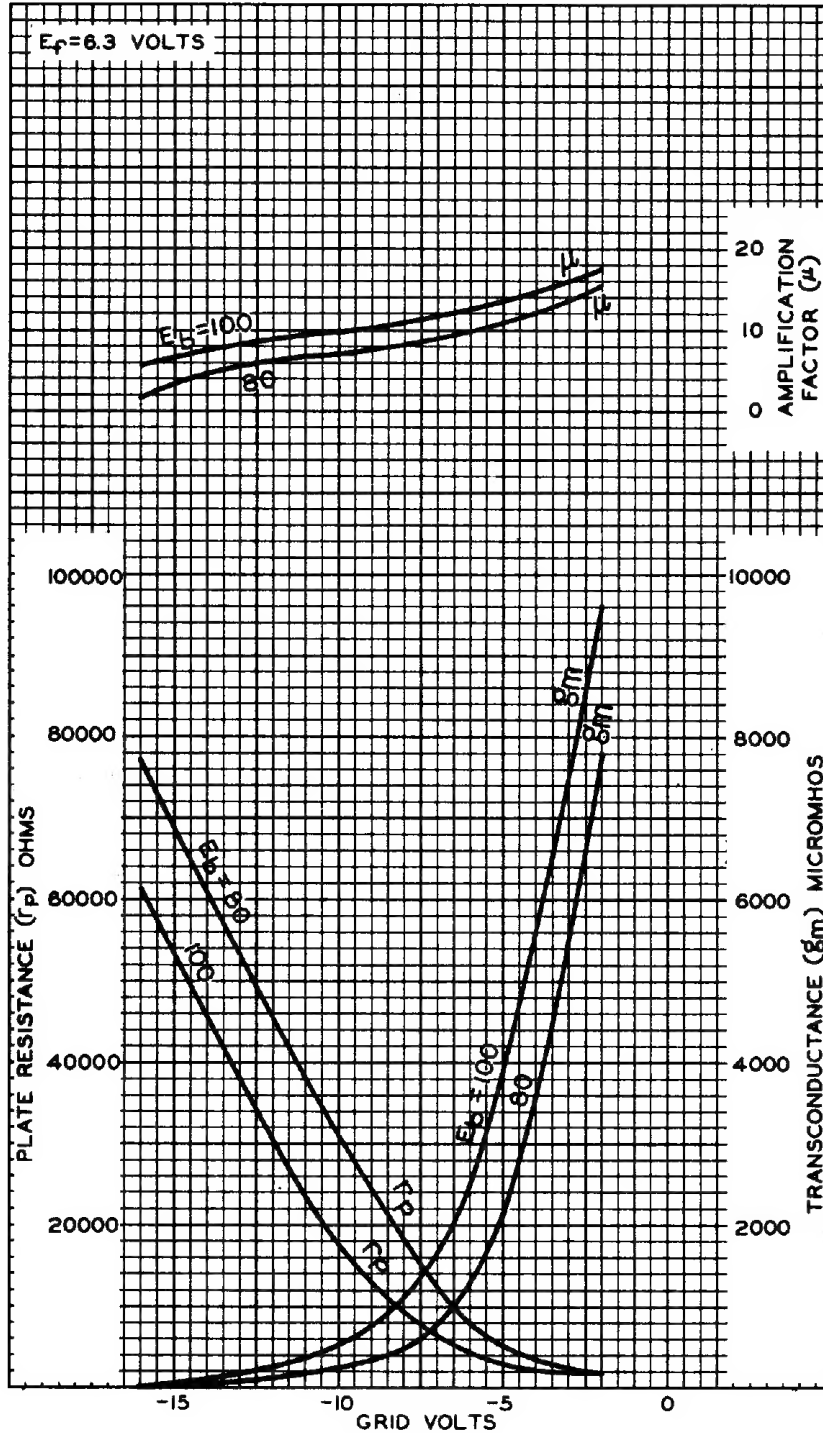
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AVERAGE CHARACTERISTICS



FEB. 26, 1952

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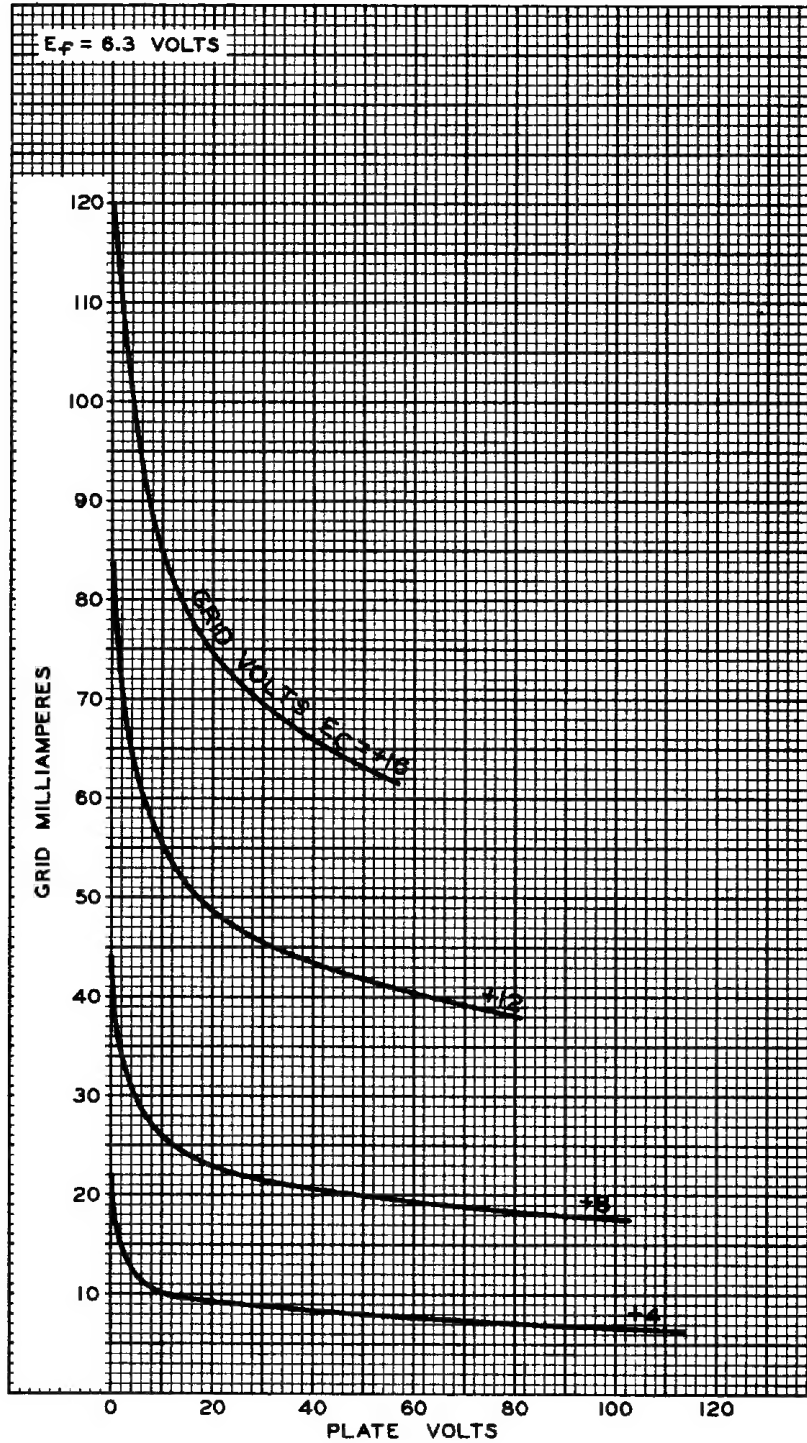
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AVERAGE CHARACTERISTICS



MAR. 19, 1952

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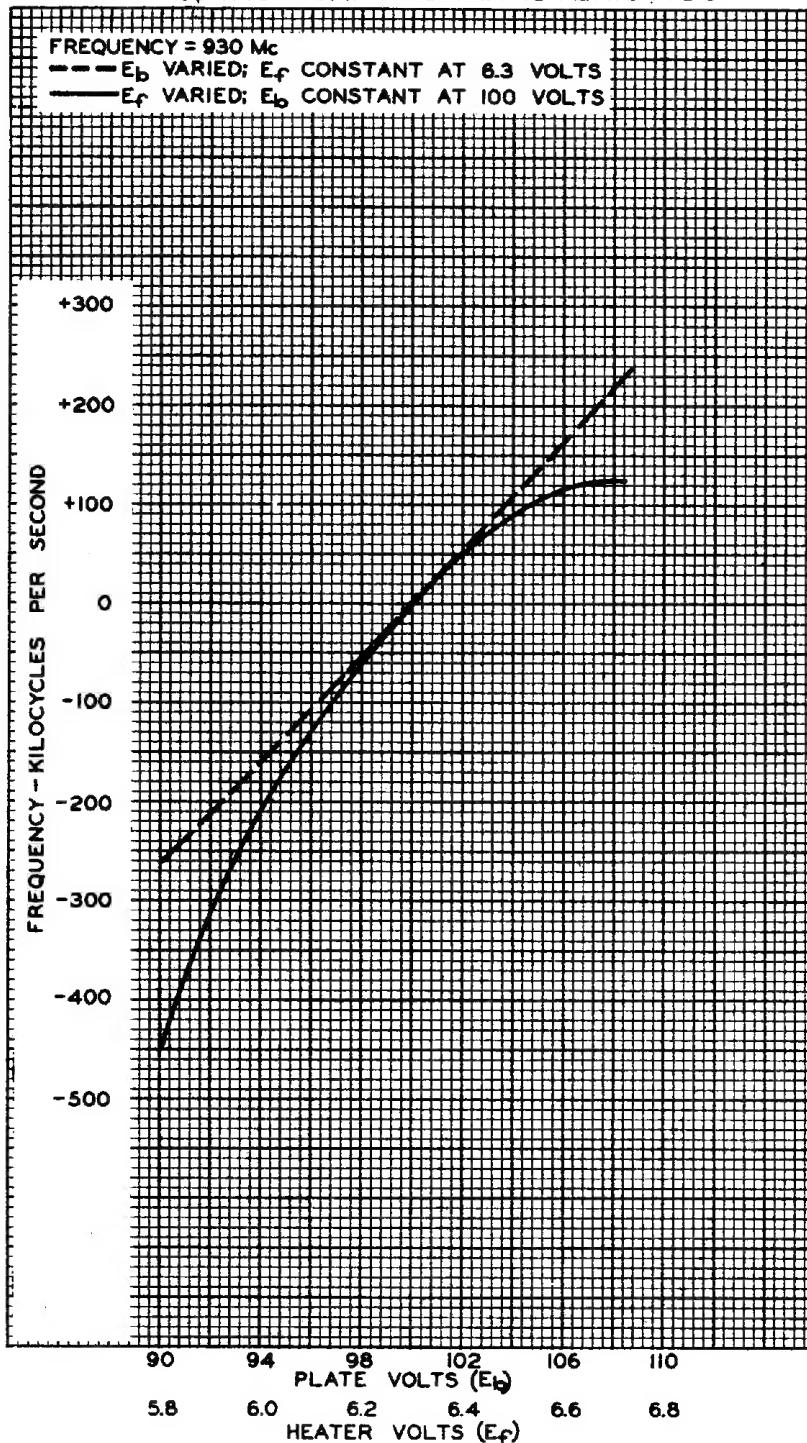
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FREQUENCY SHIFT CHARACTERISTICS



FEB. 29, 1952

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